CNP-WF511

Wireless PCI Adapter

User Manual

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Thank you for purchasing **CANYON CNP-WF511**. We sincerely wish you to enjoy the 802.11b/g wireless PCI adapter. It is an easy-to-install device that connects to PC (Ad-Hoc mode for peer-to-peer file sharing) or connects to a wireless router/access point (for internet connection). To fully utilize the functions and features of **CANYON CNP-WF511**, please read through the user manual before you get started.

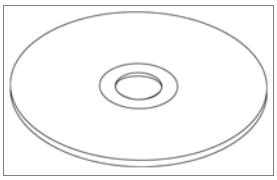
Introduction

Safety Precautions

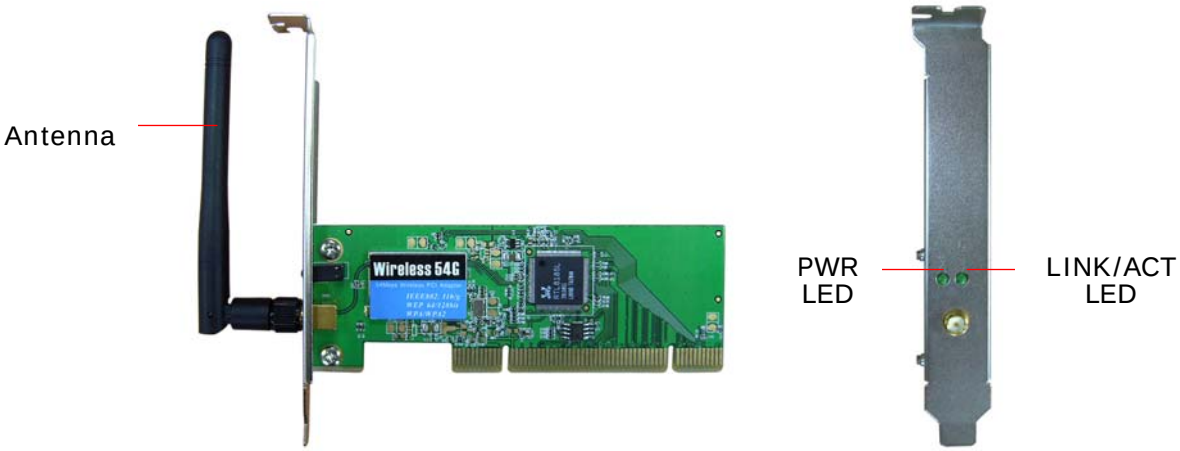
Please observe all safety precautions before using the device. Please follow all procedures outlined in this manual to properly operate the device.

- Do NOT attempt to disassemble or alter any part of the device that is not described in this guide.
- Do NOT place the device in contact with water or any other liquids. The device is NOT designed to be liquid proof of any sort.
- In the event of liquid entry into device interior, immediately disconnect the device from the computer. Continuing use of the device may result in fire or electrical shock. Please consult your product distributor or the closest support center.
- To avoid risk of electrical shock, do not connect or disconnect the device with wet hands.
- Do NOT place the device near a heat source or directly expose it to flame.
- Never place the device in vicinity of equipments generating strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or data corruption and loss.
- All images in the user manual are for user reference only. Actual products might differ slightly than images shown here.

Package Contents

Product Image	Item Name
	CNP-WF511 Main Unit
	Warranty Card
	Quick Guide
	Driver CD

Hardware Overview

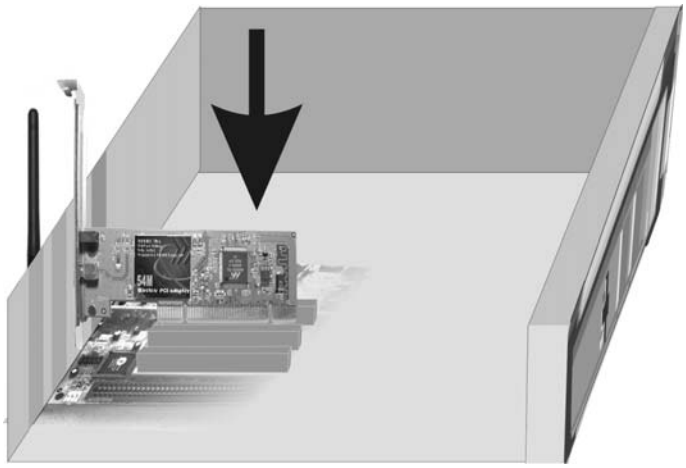


PWR LED	Lights up when device is powered
LINK/ACT LED	Flashes during network activities

Getting Started

Before using **CANYON CNP-WF511**, please make sure that the PC and the device are within range of an access point (802.11b, 802.11g, or 802.11b/g).

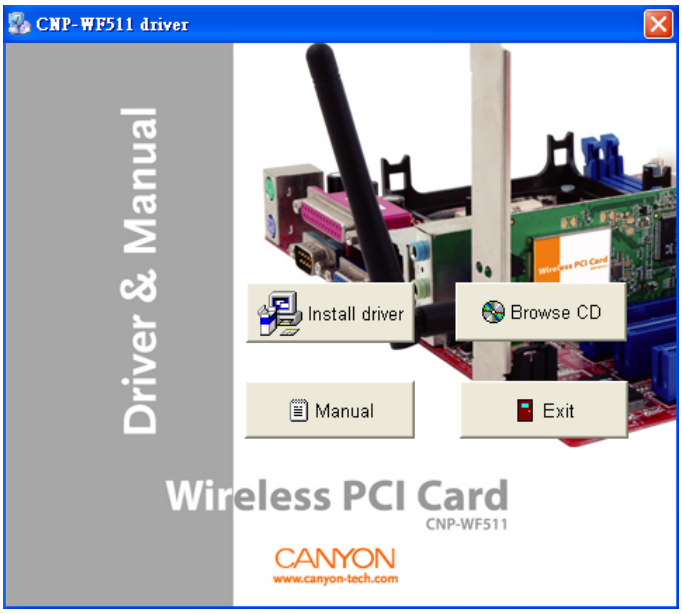
Connecting to Device



1. Power off PC.
2. Open up PC casing and locate an available PCI slot on the main board.
3. Insert wireless PCI adapter into PCI slot. Please apply adequate pressure on the device if necessary to make sure all pins are intact.
4. Secure the device with a mounting screw and close up PC chassis.
5. Attach the external antenna to the device.
6. Power on PC.

NOTE:
It is recommended to install driver with **Driver Installation Wizard** which will install both device driver and utility program.

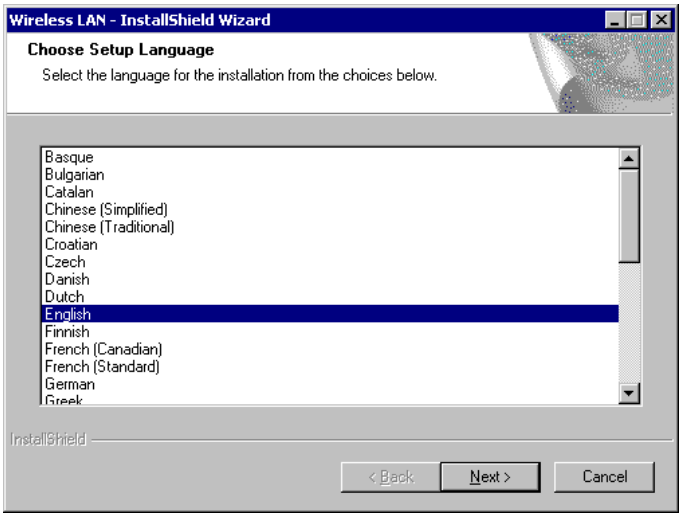
Installing Device Driver



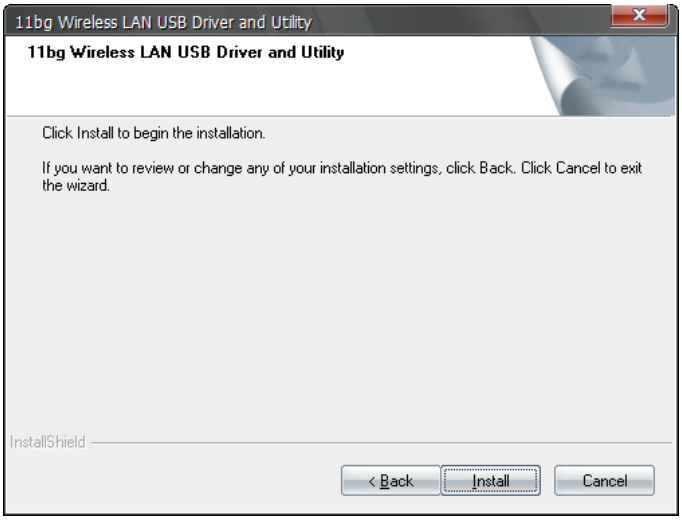
1. Upon inserting **Driver CD**, the configuration menu should pop up automatically.
2. Please proceed with **Driver Installation Wizard** to install driver.
3. Click on **Install Driver &Utility for Wireless PCI Adapter** to continue.

NOTE:

Please click on **Ok** when prompted to install **Unsigned Driver**. This is a Windows system warning that indicates the specific driver program is not certified by Windows.



4. Select preferred setup language.
5. Click on **Next** to continue or **Cancel** to exit.
6. Click **Next** again at **InstallShield Wizard** page or **Cancel** to exit.


11bg Wireless LAN USB Driver and Utility
11bg Wireless LAN USB Driver and Utility
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

7. Click on **Install** to initiate installation process or **Cancel** to exit.
8. Click on **Finish** to complete driver installation.

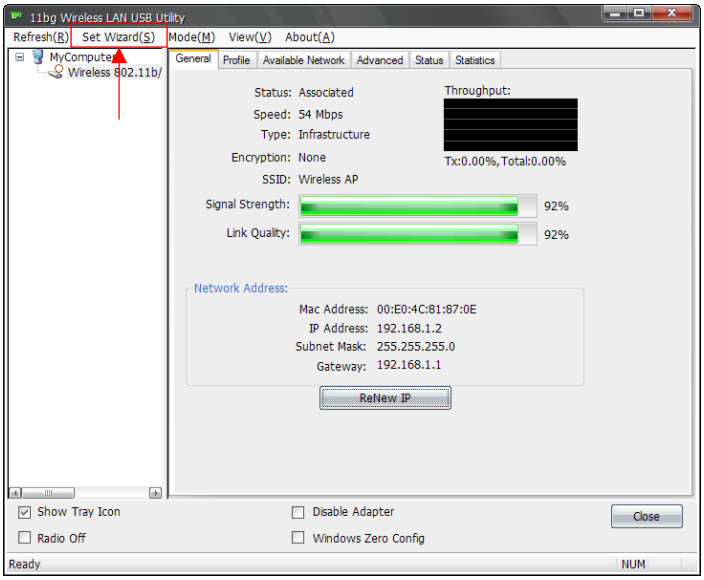
Basic Operation

Before setting up the device, please make sure that wireless network is setup and access point/wireless router is functioning properly.

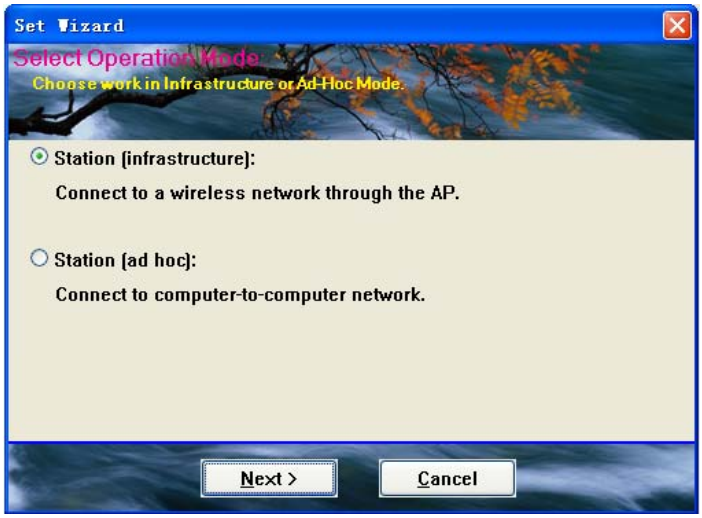
Internet Connection Wizard

1. Click on **11bg Wireless LAN PCI Utility** desktop shortcut icon to execute utility program.

NOTE:
Utility program will only be available when installing driver from **Drive CD**.



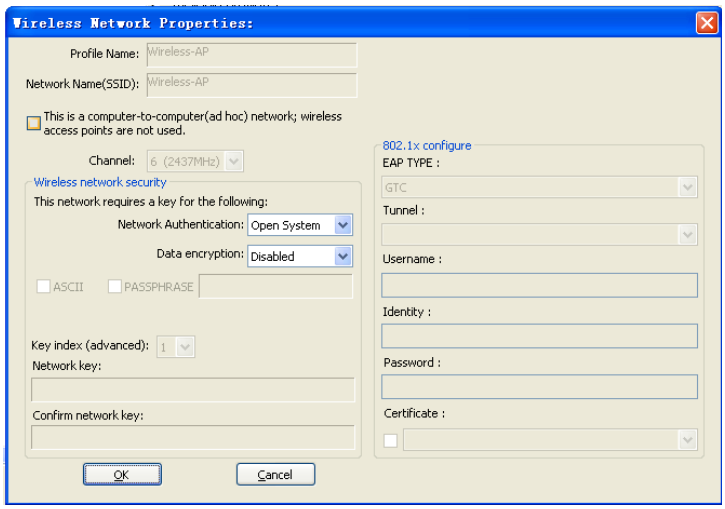
2. The Utility main page will be displayed as shown.
3. To setup basic wireless network with existing access point or wire-less router, click on **Set Wizard** on tool bar menu.



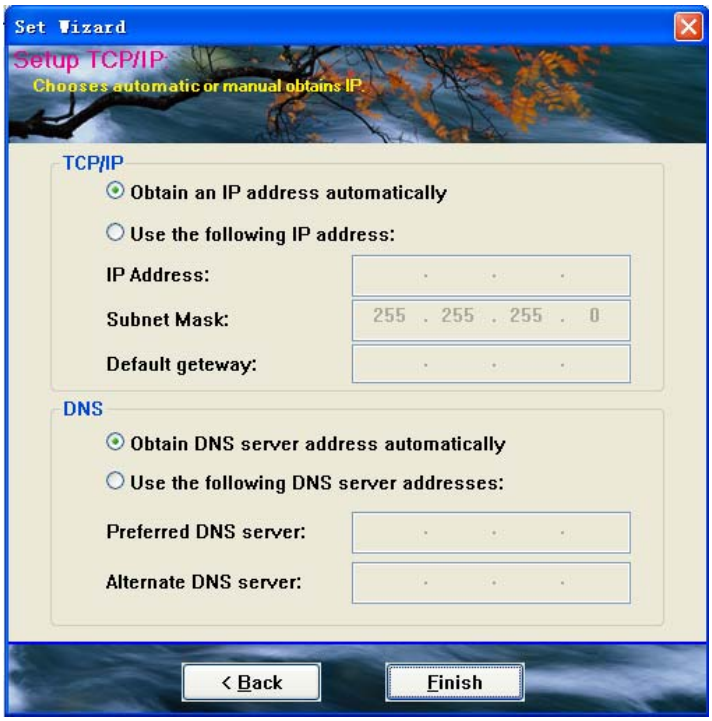
4. Select connection mode. **Station (infrastructure)** mode is recommended for Internet access.
5. Click on **Next** to continue or **Cancel** to exit.

NOTE:
The device will be restarted upon selecting **AP** option.

6. Select desired wireless connection and click on **Next** to continue or **Cancel** or exit.
7. Click on **Refresh** to update wireless connection list.

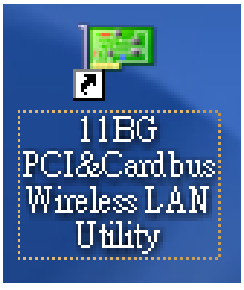


8. Review wireless network settings.
9. Enter **Passphrase** (WEP) or **Network Key** (WPA/WPA2) if required.
10. Click on **Ok** to continue or **Cancel** to exit.



11. Select **Obtain an IP address automatically** and **Obtain DNS server address automatically** when DNS service is enabled in the wireless network.
12. Select **Use the following IP address** only when required by network administrator.
13. Click on **Finish** to complete installation.

Device Configuration

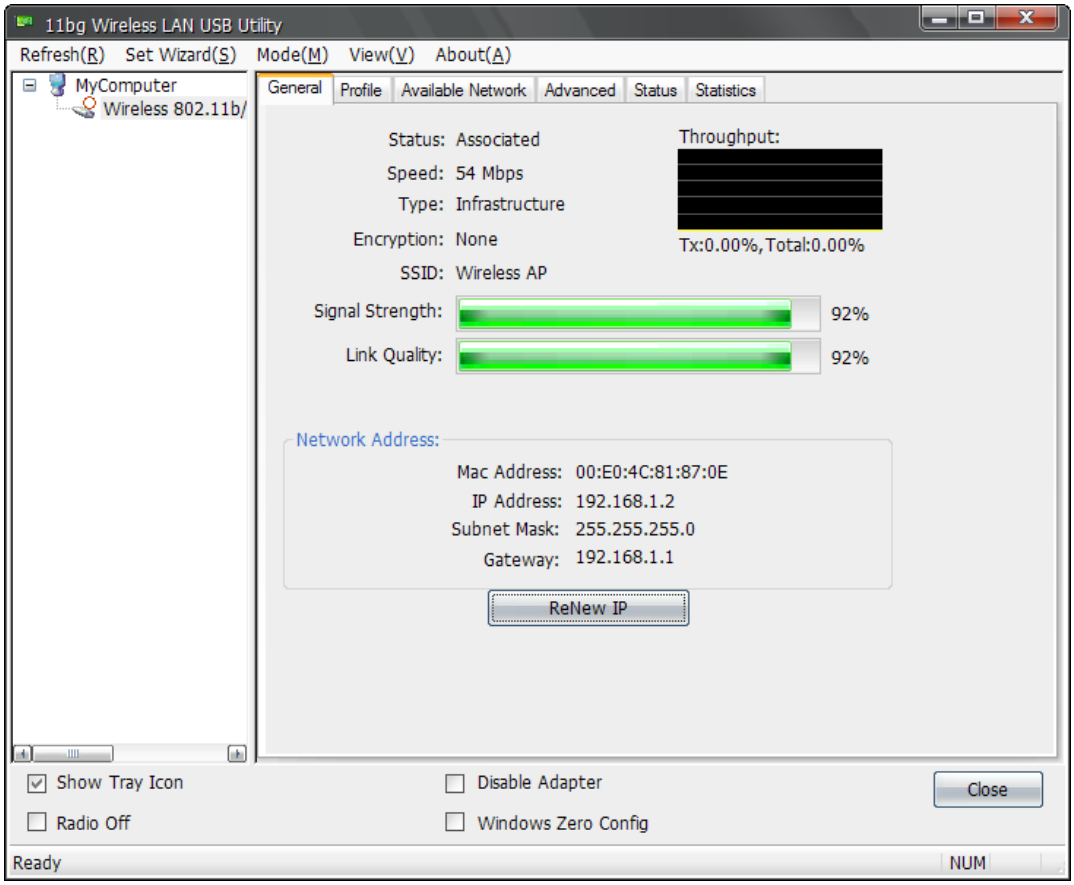


Click on **11bg Wire- less LAN PCI Utility** desktop shortcut icon to execute utility program.

NOTE:

Utility program will only be available when installing driver from **Drive CD**.

1. General



The **General** tab displays current wireless connection information. Click on **ReNew IP** to release and renew IP address.

General Information:

- **Status**: Wireless network **Associated**, **AD-HOC** Mode or **Not Associated**.
- **Speed**: The data transfer rate of the current connection.
- **Type**: The type of the current wireless connection, **Infrastructure**, **AD-HOC**
- **Encryption**: Current data encryption method.
- **SSID**: The unique name of the wireless network.
- **Signal Strength**: The signal quality of the current wireless connection.
- **Link Quality**: The link quality of the current wireless connection.

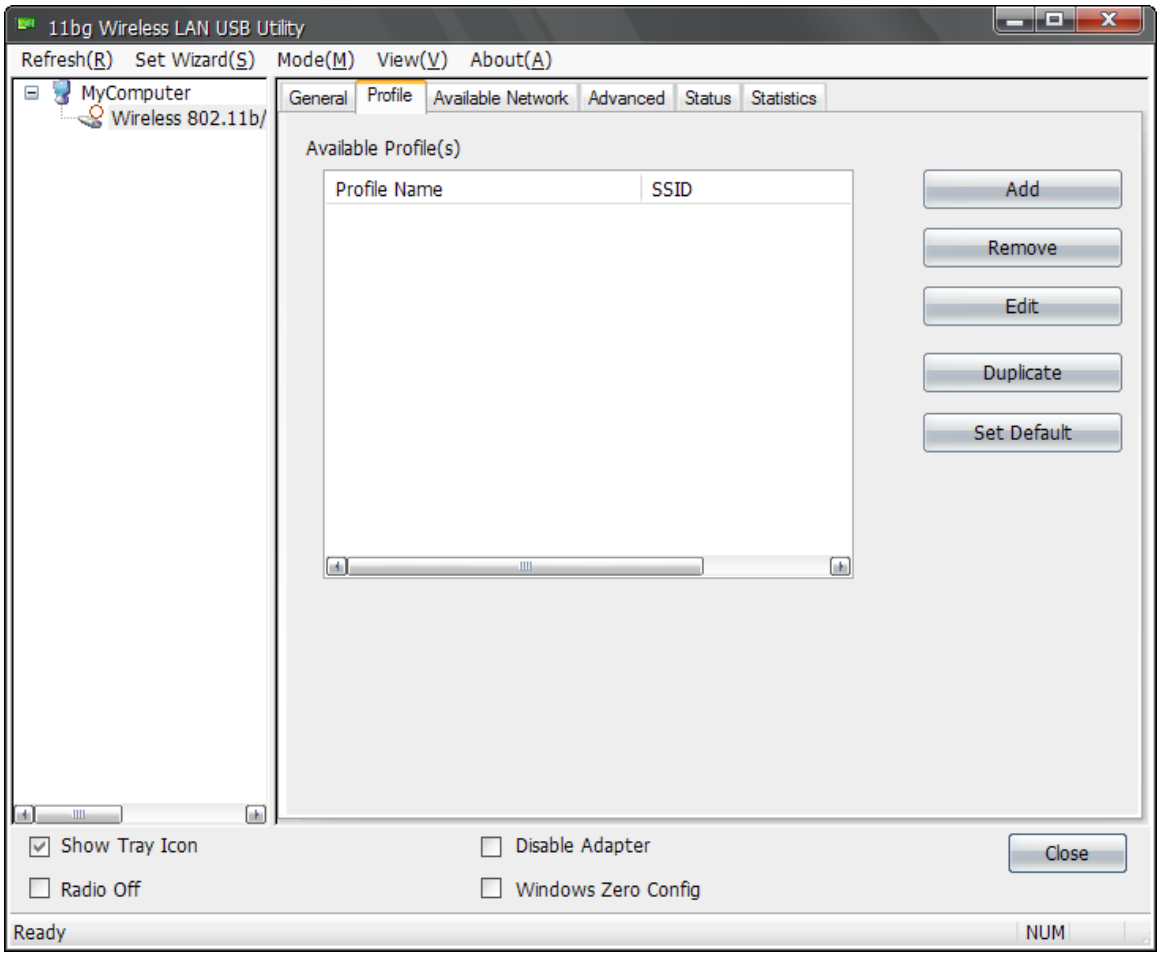
Internet Protocol (TCP/IP):

- **MAC Address**: The MAC Address of the Adapter.
- **IP Address**: The IP Address of the Adapter.
- **Subnet Mask**: The Subnet Mask of the Adapter.
- **Gateway**: The Default Gateway address of the Adapter.

Others:

- **Show Tray Icon**: Show PCI Wireless LAN Utility icon in Windows Notification Area.
- **Disable Adapter**: Disable the wireless adapter.
- **Radio off**: Turn off the radio broadcasting/receiving activities of the wireless adapter.
- **Windows Zero Config**: Enable this function if desired to configure wireless connection by Windows wireless adapter configuration program.

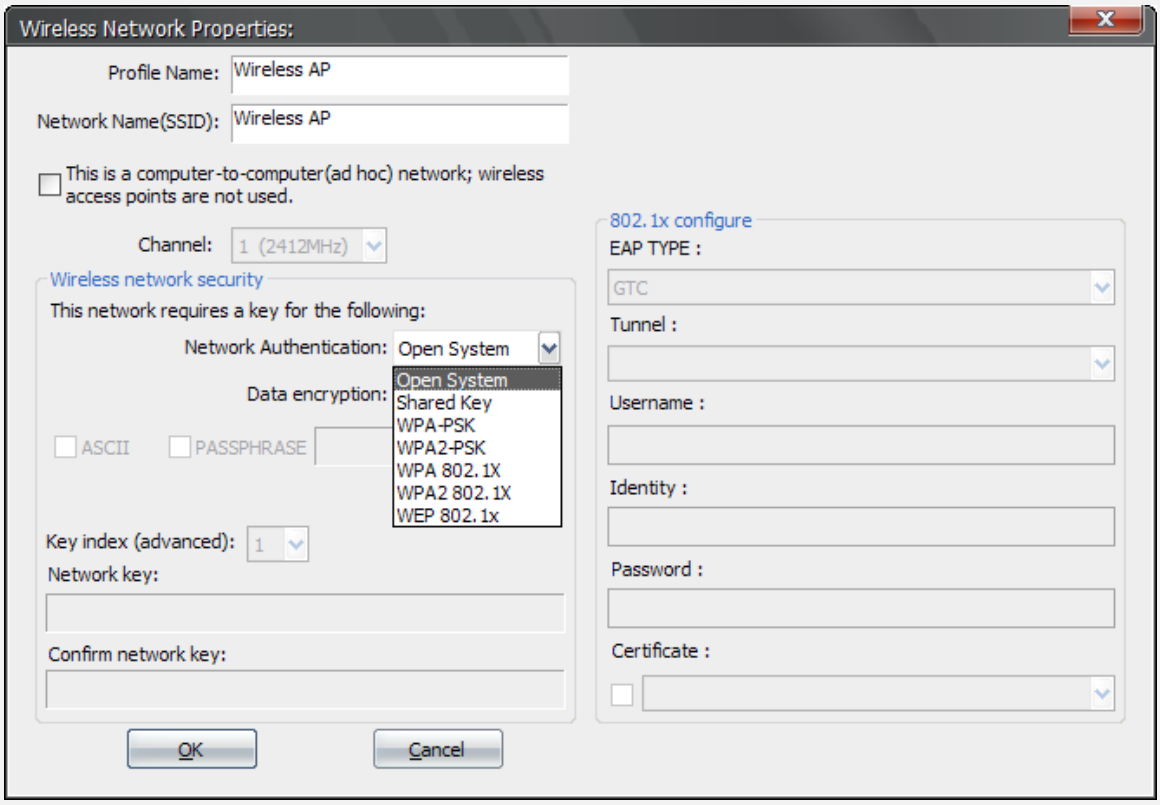
2. Profile



The **Profile** tab adds, removes, edits, duplicates, and set default a wireless network profile. Click on each button to start profile configuration.

NOTE:

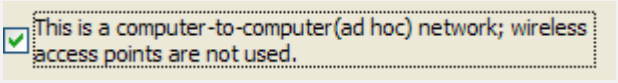
Follow below instructions to configure device connecting to a wireless network providing PC Internet access (Infrastructure mode) and connecting to another PC directly (AD-HOC mode). Please be advised that switching between 2 modes requiring reset of the device thus connection to other devices will be temporarily disabled.



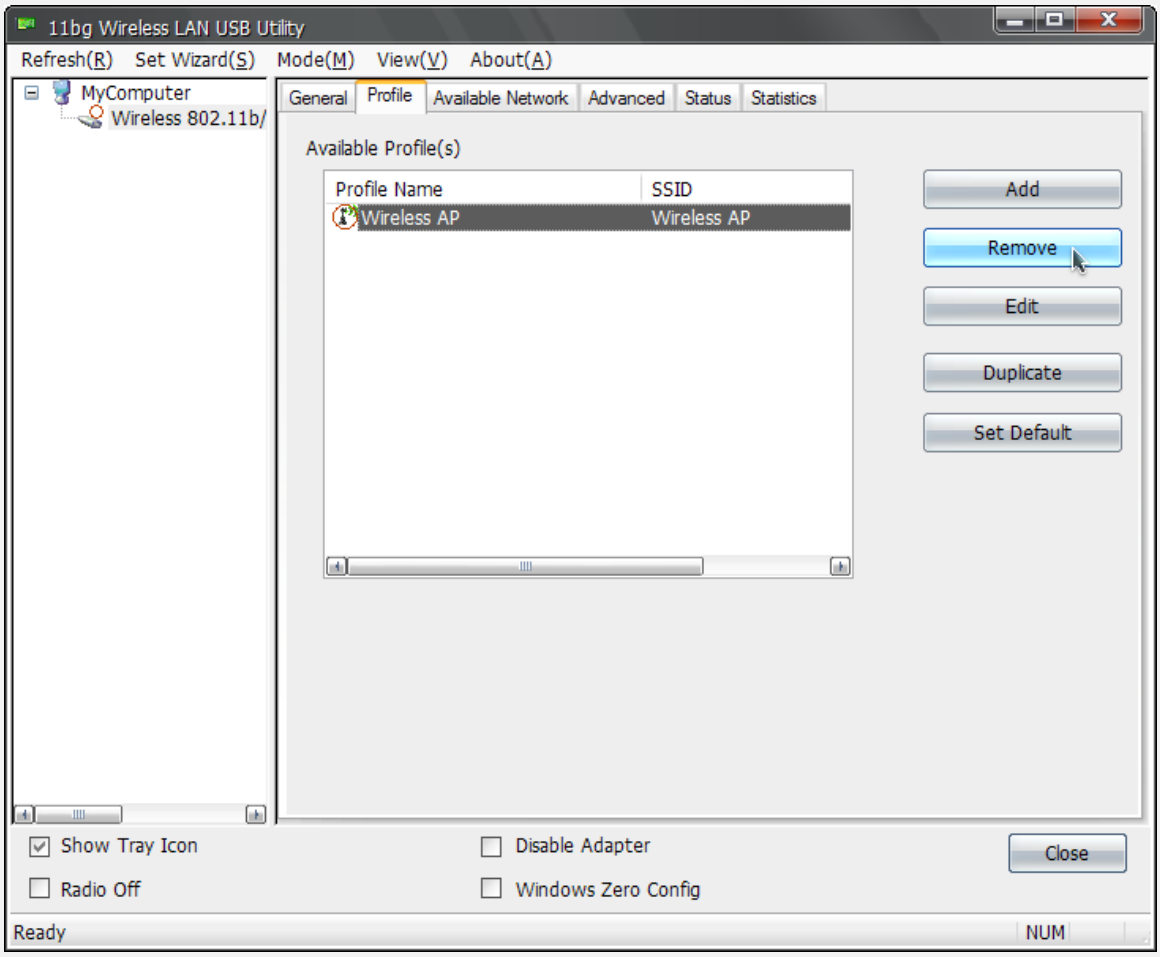
Add:

1. Creating a new Infrastructure mode profile
    1. Type in **Profile Name** (user defined) and **SSID**(actual network name from wireless router).
    2. Select **Network Authentication** method and type in **Data Encryption** method from the drop down menu. These settings must match that of wireless router.
    3. Type in **Passphrase** (WEP) or **Network Key** (WPA/WPA2) if necessary.
    4. Select and type in appropriate items if 802.1x certification is enabled.
    5. Click **OK** to continue or **Cancel** to exit.

- Creating a new AD-HOC mode profile



1. Click on the option shown as above to create AD-HOC profile.
2. Refer to the instructions from the previous section for more information.



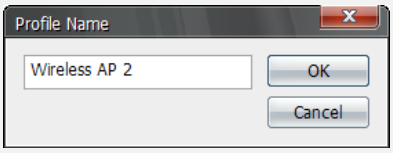
Remove:

Select a profile and click on **Remove** to delete it.

Edit:

Select a profile and click on **Edit** to modify it. Please refer to **Add** section for more detailed instructions.

Duplicate:

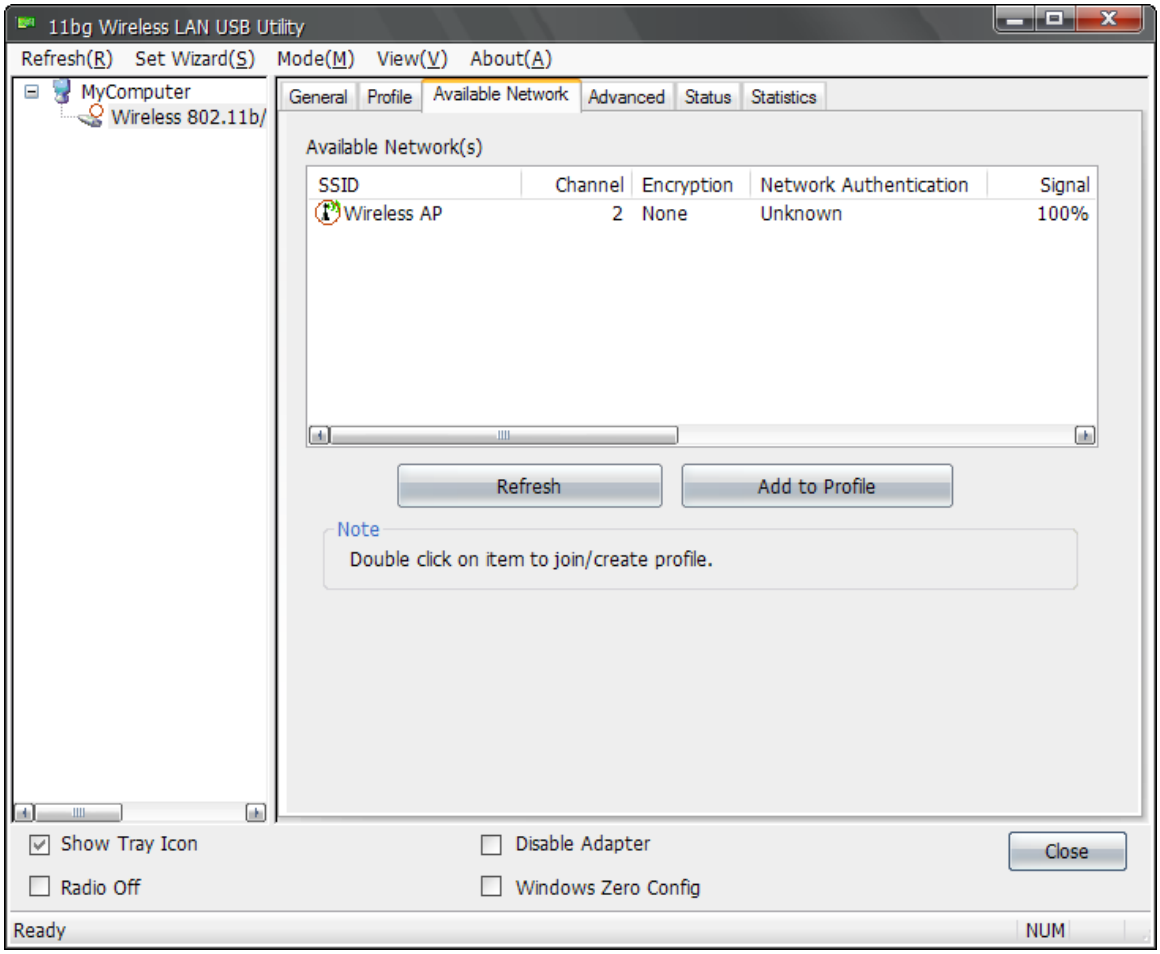


Select a profile and click on **Duplicate** to duplicate profile. Type in a new profile name and click on **OK** to create duplicates. Click on **Cancel** to cancel action.

Set Default:

Select a profile and click on **Set Default** to set specific profile as default wireless connection.

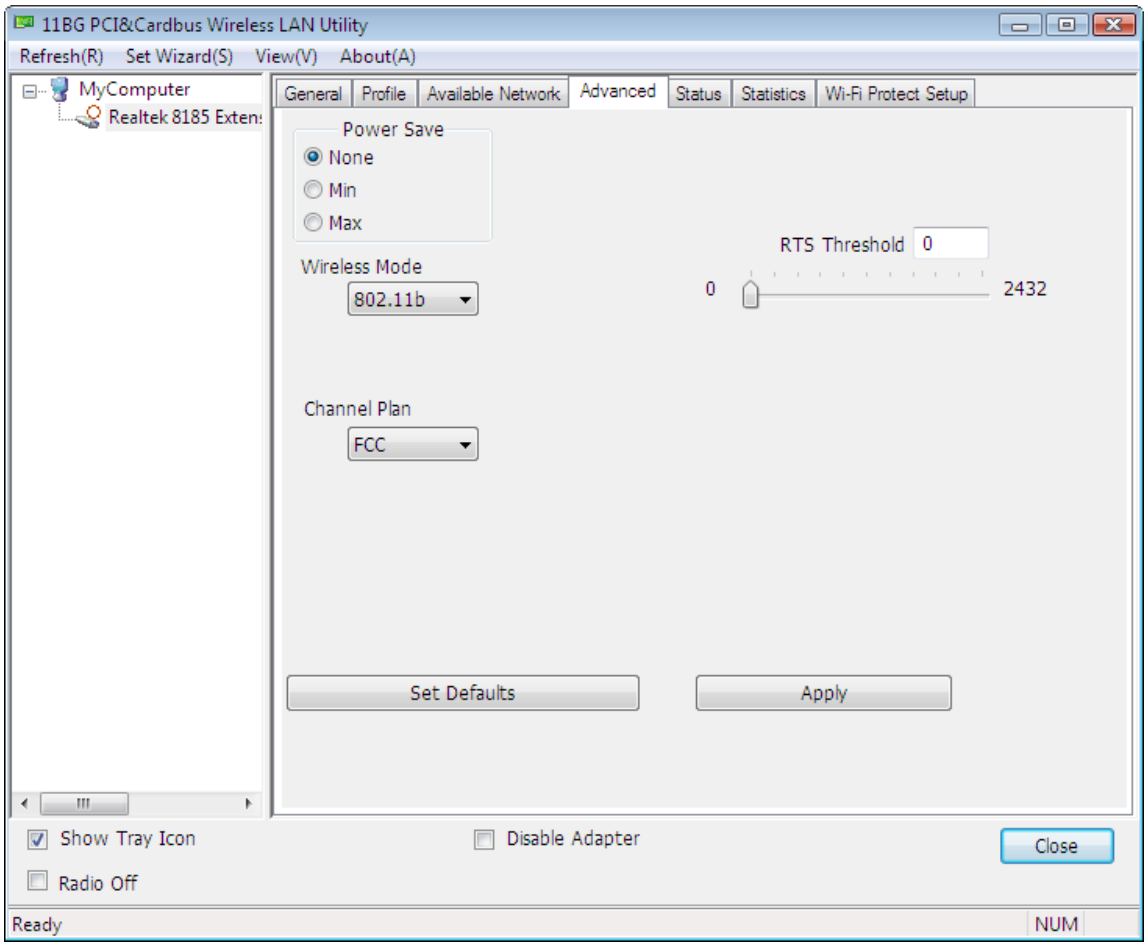
3. Available Network



The **Available Network** tab displays a list of infrastructure and AD-HOC networks available for wireless connection.

1. Select a connection on the list and click on **Add to Profile** to join network.
2. Refer to instructions on previous section for more detailed information.

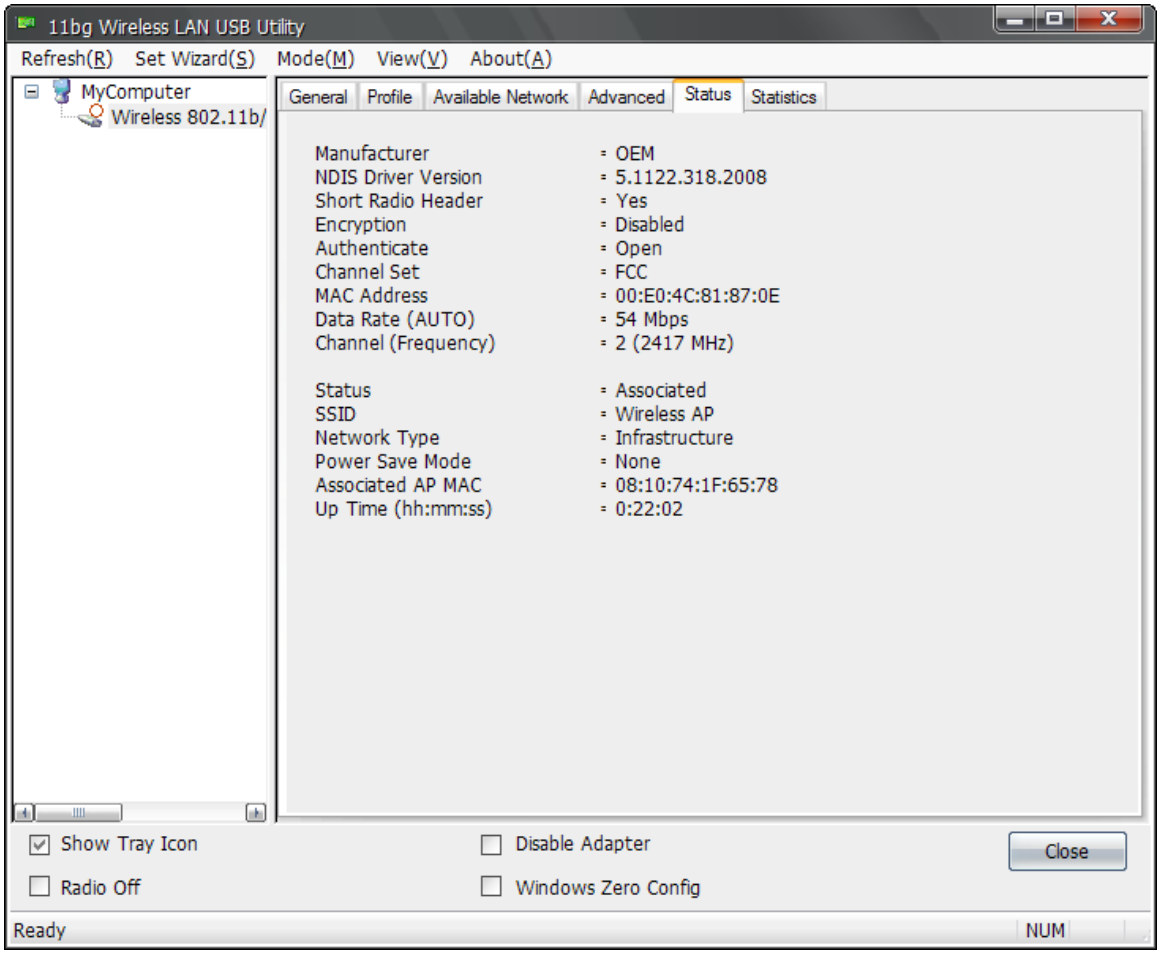
4. Advanced



The **Advanced** tab displays a number of advanced options.

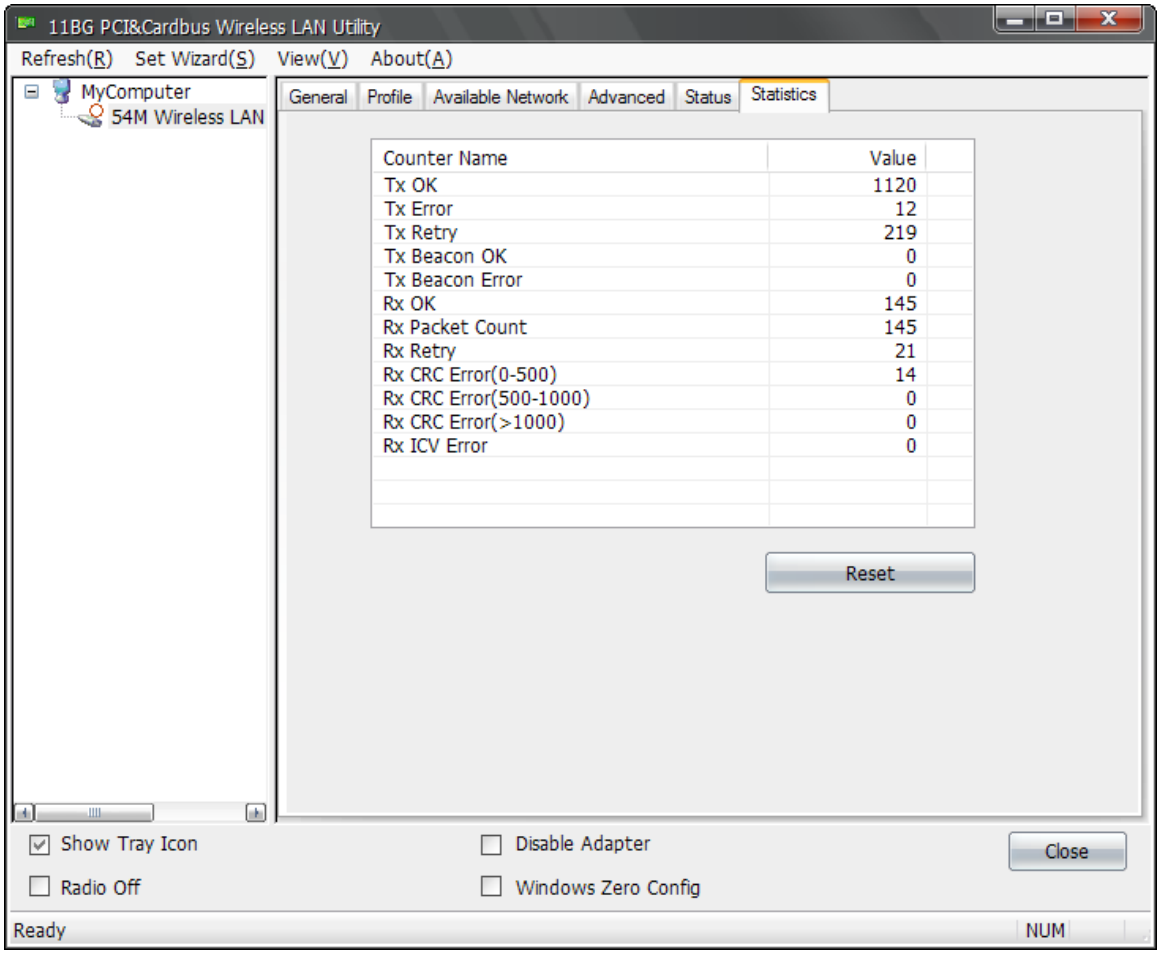
1. **Power Save**: Select the frequency of message response time.
2. **Wireless Mode**: Select the wireless operation standard.
3. **Channel Plan**: Select channel in accordance to wireless standard.
4. **RTS Threshold**: Drag and slide bars to adjust threshold values as desired.
5. **Set Default**: Click to restore factory settings.
6. **Apply**: Click to apply modified configurations.

5. Status



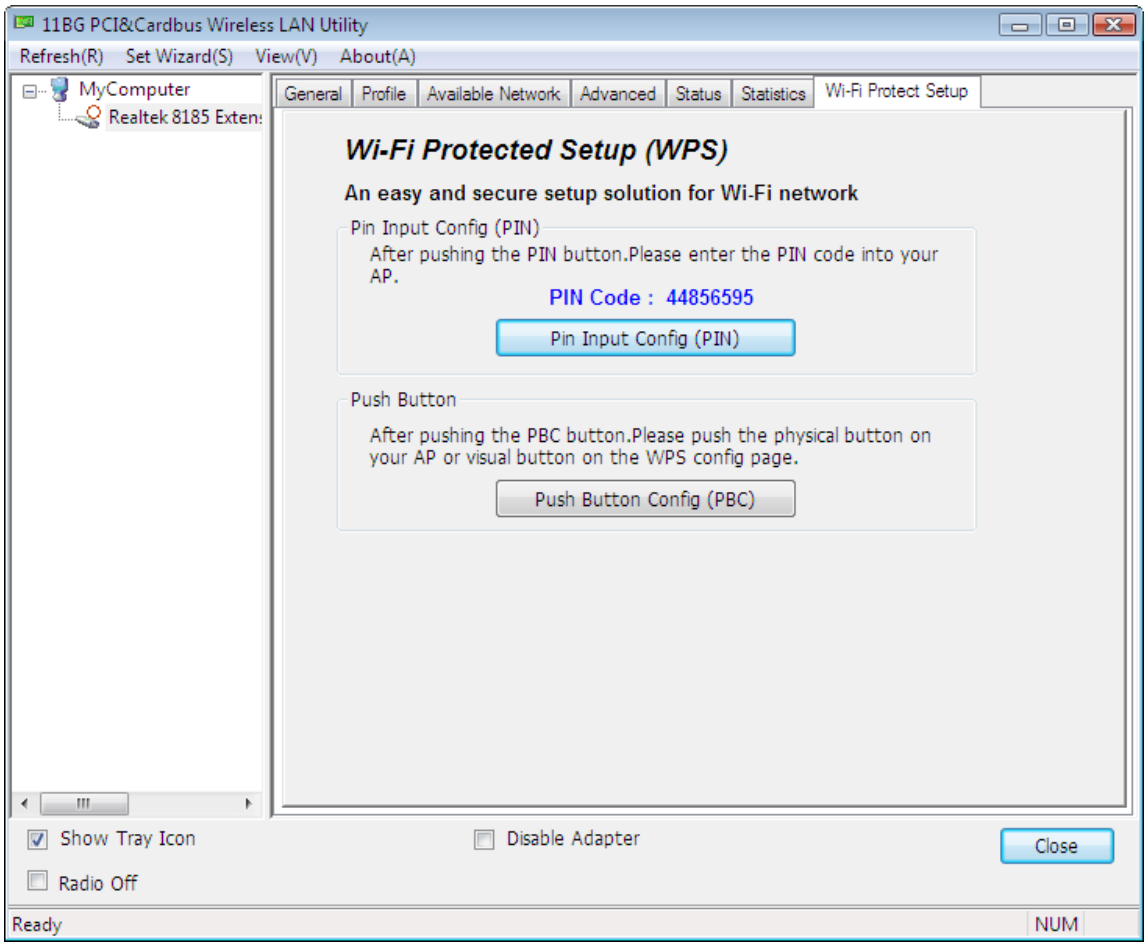
The **Status** tab displays the detailed information of current device and wireless connection.

6. Statistics



The **Statistics** tab displays the values of current wireless connection Tx and Rx. Click on **Reset** button to reset values and to renew to count.

7. Wi-Fi Protected Setup (WPS)



The **Wi-Fi Protected Setup** tab provides an easier means to join existing wireless network.

Pin Input Config (PIN):

Click on **Pin Input Config (PIN)** to produce a set on PIN Code. Enter the PIN Code on appropriate wireless router machine to establish wireless network.

Push Button:

Click on **Push Button Config (PBC)** and either press on physical designated button or click on corresponding virtual button on the wireless router machine to establish wireless network.

Troubleshooting

Please refer to the following procedures if **CNP-WF511** does not function as it should be. Be advised that the following instructions are only intended for simply troubleshooting purpose. Please contact your local authorized shops for further troubleshooting and technical support.

- **The device does not work properly.**
  1. Reinsert the wireless PCI adapter as instructed in **Connecting to Device** section.
  2. Please make sure the device drivers installed matches the device inserted.
  3. Check on device status under device manager. If an exclamation mark is displayed next to the device name, please uninstall the driver as instructed in **Installing Device Driver** section.
- **Unable to establish connection with other PCs linked via Ethernet with Infrastructure configuration.**
  1. Please make sure that the PC connected with wireless USB adapter is powered on.
  2. Please also make sure that the device is configured on the same channel and with the same security options as with the other PCs with infrastructure connection.
- **Unable to connect to the wireless network/accessing to the Internet with device installed.**
  1. Please examine the broadband modem for normal activity by checking status LED indicator.
  2. Please also examine the wireless router if it is functioning properly. Check if the power adapter and network cable is firmly plugged in.
  3. Verify IP address, subnet mask, gateway, and DNS settings are configured as required by wirless router.
  4. Make sure SSID(Service Set Identifier) on the device is setup in accordance with wirless router in infrastruture mode.
  5. Make sure that the SSIDs are identical on devices in AD-HOC mode. It is recommended to establish a BSS(Basic Service Set) and wait for a few moments before setting up the other device to prevent multiple singular BSSs being established.
  6. Please make sure that the security settings on the device is matching that of wireless router/access point.

Appendix

Technical Specifications

Standards	IEEE 802.11g, IEEE802.11b
Channels	13 Channels
Interface	PCI
Network Protocol	TCP/IP, IPX, NDIS 4, NDIS 5, NDIS 5.1, NetBEUI
Transmit Power	15 dBm
Sensitivity	-80 dBm
WEP Key Bits	64 bit, 128 bit
Temperature	Operating: 0° to 40° C Storage: -20° to 70° C
Humidity	Operating: 10% to 85 % non-condensing Storage: 5% to 90 % non-condensing
Dimensions	120mm(L) X 45mm(W) (Non-Bracket)
Weight	50g
Power	3.3V